

ABSTRACT

An improved method and apparatus for recycling demolition brick for reuse in new construction. The bricks are recycled by having mortar removed from the demolition bricks, then stacking the recycled bricks for shipment. An automated process having seven stations is utilized from removing mortar from the demolition brick and stacking the brick. The first station includes a sorting area where the demolition brick is introduced into the automated process. The second station is a first cutting area where mortar is removed from the back surface of the brick. In the third station, the demolition brick is secured in a clamp and an image is taken of the front surface of the brick. The imaging data is used by the fourth station where cutting devices remove mortar from opposing ends of the demolition brick. Similarly, imaging data is utilized by the fifth station where a third cutting device removes mortar from the top and bottom of the demolition brick. At the sixth station, a loading arm removes the brick from the clamp and positions the brick on a shelf for placement onto a pallet. The bricks are properly stacked on a pallet at the seventh station for transporting to a site for reuse.

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